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SUBJECT Transmittal of Publications (C)		REFERENCES Jul 57	
SUMMARY & REPORT 1. Transmitted herewith is an English language digest which summarizes the scientific and technical articles of interest contained in the following publications: a. Bergakademie b. Energietechnik		REGARDING DATA CANNOT BE PREDETERMINED	
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GDR/Mining Energy  
 July 1957  
page 2

Radiographical studies of lignite filter ashes

A.Meisel.- Lignite filter ashes occur in large quantities in the flue gas filters of coal dust firings. As such ashes will harden to some extent under the presence of water, their utilization as an admixture for building cement has been attempted in the years after 1945. Success, however, depends on a thorough knowledge of the mineral constituents in lignite ~~xxx~~ ashes and their hydraulic properties. The author describes the radiographical and chemical analysis of two different lignite filter ashes. The methods employed are basically similar to the methods used by American scientists when treating the Portland cement problem. 7 figures.

(BA 9. no.7. 339-348. July 1957. Leipzig, GDR)

Dynamics of the setting and cooling of castings in the mold

I.D.Semikin and E.M.Goldfarb.- The authors evolve a simplified analytical approach to the cooling problem of plates, cylinders, and spheres. The underlying model representation of the process of heat conduction differs from the classical concept by that it assumes that the flow of heat is limited to the surface layer of the casting in the first moment of the cooling process, and that the entire wall thickness participates in the process only after a certain time. The usefulness of the resulting formulas is demonstrated by a worked example which illuminates the difference of cooling speed occurring when iron molds are used instead of sand molds. 6 figures.

(BA 9. no.7. 349-356. July 1957. From: "Litenoje Proisvodstvo", no.2, 1956)

1957 colloquy on coal chemistry held at Freiberg

The above annual colloquy was held by GDR's Fuel Engineering Society in cooperation with two institutes of the Freiberg Mining Academy. Abstracts are given of the following papers presented during the colloquy:

- (a) A.Dierichs and G.Heinischen, Freiberg: The properties of pitch obtained from pressure extraction of lignite;
- (b) G.Günther, Rehmsdorf: The influence of different pre-treatments on the activity of an oxide-sulfide mixed catalyst;
- (c) R.Birthler, Böhlen: The use of a platinum-alumina catalyst in the ~~ix~~ dehydrogenating plant;
- (d) R.Tannenberger, Großdeuben: Experiences gained from, and problems involved in, the use of Lauchhammer tar in high-pressure hydrogenation;
- (e) A.Lissner and W.Göbel, Freiberg: Studies on the characterization of lignites, particularly high-volatile containing lignite;
- (f) H.Lütgert and K.Kraft, Leune: On urea adductions to defined hydrocarbons;
- (g) M.Hultschig, Leipzig: On the chromatography of gases and light hydrocarbons.

(BA 9. no.7. 363-364. July 1957. Freiberg, GDR)

GDR/Mining Energy  
July 1957  
page 1

Digest of GDR's Technical and Scientific Periodicals

MINING AND ENERGY

This Digest covers the following periodicals:

Bergakademie (BA)

Energietechnik (EN)

IR-362-57

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